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(54) Title: METHODS FOR THE REMOVAL OF ORGANIC NITROGEN, ORGANIC AND INORGANIC CONTAMINANTS FROM AN AQUEOUS LIQUID

(57) Abstract: The present invention relates to methods for the removal of organic nitrogen, organic and inorganic contaminants from an aqueous liquid. More particularly, the present invention related to a process for the removal of organic and inorganic contaminants from an aqueous liquid. The process includes the step of adding nitrosonium ion generator such as nitrous acid and nitrite in acidic media to remove organic nitrogen and followed by the step of adding hydrogen peroxide and activated carbon to remove all the other organic and inorganic contaminants.

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: C02F 1/58

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: C02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPOQUE; WPI; PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SU 923961 A1 (ZHANTALAI) 30 April 1982 (30.04.1982) (abstract); <i>World Patent Index [online] London UK; Derwent Publications Ltd. [retrieved on 09.03.2004]. Retrieved from EPOQUE/WPI, DW 198309, Accession number 1983-22117K</i>	1-3
X	JP 09 122690 A (KURITA WATER IND LTD) 13 May 1997 (13.05.1997) (abstract) [online] [retrieved on 09.03.2004]. Retrieved from EPOQUE/PAJ.	1-3
X	US 5716528 A (JASIM et al.) 10 February 1998 (10.02.1998) abstract; column 1, lines 52-67; claims 1, 8.	4-6,8

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000 135492 A (ASAHI ENG CO LTD) 16 May 2000 (16.05.2000) <i>(abstract). [online] [retrieved on 25.02.2004]. Retrieved from: EPOQUE PAJ Database.</i>	4-7
X	JP 05 064789 A (MITSUBISHI GAS CHEM CO INC) 19 March 1993 (19.03.1993) <i>(abstract). [online] [retrieved on 25.02.2004]. Retrieved from: EPOQUE PAJ Database.</i>	4-8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report			Publication date	Patent family member(s)	Publication date
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JP	A	9122690A 2		none	
JP	A	20001354 92A2		none	
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